```
                                (((((((..((((........)))).(((((.......)))))).....(((((.....
chr-5.trna237-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUUCGGGGAUCGAU 59
chr-6.trna64-Ala-AGC      GGAGAUGUAGCUCAG-AUGGUAGAGUGGCUGGCUUAGCAUGCGAGGGGUACGGGGAUCGAU 59
chr-13.trna87-Ala-AGC     GGGGAUGUAGGUCAG-AUGGUAGAGCGGCUUGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-13.trna99-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGUUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-1.trna18-Ala-AGC      GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-1.trna160-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-16.trna75-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-1.trna168-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-15.trna1-Ala-AGC      GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-4.trna103-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-4.trna133-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-13.trna97-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-13.trna96-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-13.trna95-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-6.trna30-Ala-AGC      GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-6.trna100-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna10-Ala-AGC      GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna129-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna199-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-13.trna82-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna228-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-12.trna19-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-10.trna133-Ala-AGC    GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-10.trna132-Ala-AGC    GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-10.trna130-Ala-AGC    GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-10.trna23-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-8.trna6-Ala-AGC       GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-9.trna263-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-8.trna140-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-8.trna18-Ala-AGC      GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna9-Ala-AGC       GGGGAUGUAGCUCAG-AUGGUAGAGUGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-13.trna90-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-4.trna101-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUUGCUUAGCAUGCAAGAGGUACGGGCAUCGAU 59
chr-13.trna93-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGAGGAUUGAU 59
chr-13.trna98-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACUGGGAUCGAU 59
chr-2.trna178-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna130-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCGAGAGGUACAGGGAUCAAU 59
chr-15.trna54-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCACUUAGCAUGCGAGAGAUACGGGGAUCGAU 59
chr-2.trna179-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCACUUAGCAUGCAAGAGGUACGGGGAUCGAU 59
chr-13.trna81-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGUGGCUUGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-5.trna166-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCAAGAGGUACGGGGAUCGAU 59
chr-5.trna239-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUCGCUUAGCAUGCAAGAGGUACUGGGAUCGAU 59
chr-13.trna92-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAAAGCGGCUCGCUUUAGCAUGUGAGAGGUACGGGGAUCGAU 59
chr-13.trna94-Ala-AGC     GGGGAUGUAGCCUAG-AUGGUAGAACGGCUCGCUUAGCAUGCGAGAGGUACGGGGAUUGAU 59
chr-9.trna264-Ala-AGC     GGGGAUGUAGCUCAG-AUGGUAGAGCGGCUUGCUUAGCAUGGGAGAGGUAAGGGUAUCGAU 59
chr-2.trna55-Ala-AGC      GGUGUCGUGGUGUAGUUUGUUAUCAUGUCAGUCGAGCACACUAAAGGUCUCCGGUUUGAG 60
                          .........10........20........30........40........50.........
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chr-5.trna237-Ala-AGC     ACCUCGCAUCUCCA 73
chr-6.trna64-Ala-AGC      ACCCCGCGUCUCCA 73
chr-13.trna87-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna99-Ala-AGC     ACCCCGCAUCUCUA 73
chr-1.trna18-Ala-AGC      ACCCCGCAUCUCCA 73
chr-1.trna160-Ala-AGC     ACCCCGCAUCUCCA 73
chr-16.trna75-Ala-AGC     ACCCCGCAUCUCCA 73
chr-1.trna168-Ala-AGC     ACCCCGCAUCUCCA 73
chr-15.trna1-Ala-AGC      ACCCCGCAUCUCCA 73
chr-4.trna103-Ala-AGC     ACCCCGCAUCUCCA 73
chr-4.trna133-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna97-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna96-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna95-Ala-AGC     ACCCCGCAUCUCCA 73
chr-6.trna30-Ala-AGC      ACCCCGCAUCUCCA 73
chr-6.trna100-Ala-AGC     ACCCCGCAUCUCCA 73
chr-7.trna10-Ala-AGC      ACCCCGCAUCUCCA 73
chr-7.trna129-Ala-AGC     ACCCCGCAUCUCCA 73
chr-7.trna199-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna82-Ala-AGC     ACCCCGCAUCUCCA 73
chr-7.trna228-Ala-AGC     ACCCCGCAUCUCCA 73
chr-12.trna19-Ala-AGC     ACCCCGCAUCUCCA 73
chr-10.trna133-Ala-AGC    ACCCCGCAUCUCCA 73
chr-10.trna132-Ala-AGC    ACCCCGCAUCUCCA 73
chr-10.trna130-Ala-AGC    ACCCCGCAUCUCCA 73
chr-10.trna23-Ala-AGC     ACCCCGCAUCUCCA 73
chr-8.trna6-Ala-AGC       ACCCCGCAUCUCCA 73
chr-9.trna263-Ala-AGC     ACCCCGCAUCUCCA 73
chr-8.trna140-Ala-AGC     ACCCCGCAUCUCCA 73
chr-8.trna18-Ala-AGC      ACCCCGCAUCUCCA 73
chr-7.trna9-Ala-AGC       ACCCCGCAUCUCCA 73
chr-13.trna90-Ala-AGC     ACCUCGUAUCUCCA 73
chr-4.trna101-Ala-AGC     ACCCCACAUCUCCA 73
chr-13.trna93-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna98-Ala-AGC     ACCCCGCAUCUCCA 73
chr-2.trna178-Ala-AGC     ACCCCGCUUCUCCA 73
chr-7.trna130-Ala-AGC     ACCCCGCAUCUCCA 73
chr-15.trna54-Ala-AGC     ACCCCGCAUCUCCA 73
chr-2.trna179-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna81-Ala-AGC     ACCCCGCAUCUCUA 73
chr-5.trna166-Ala-AGC     ACCCCGCAUCUCCA 73
chr-5.trna239-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna92-Ala-AGC     ACCCCGCAUCUCCA 73
chr-13.trna94-Ala-AGC     ACCCCGCAUCUCCA 73
chr-9.trna264-Ala-AGC     ACCCUGCAUCUCCA 73
chr-2.trna55-Ala-AGC      UUUGGGCGACGCCA 74
                          .........70...
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